Comparisons of Job Characteristics

Focus Occupation: Pipelayers (47-2151)
Associated Occupation: Construction Laborers (47-2061)

Compare Knowledge
Compare Skills
Compare Abilities
Compare Detailed Work Activities
Compare Tools and Technologies

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge — Similarity of Focus Occupation to Associated Occupation: 86

Focus Occupation: Pipelayers (47-2151)
Associated Occupation: Construction Laborers (47-2061)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Building and Construction	4.0	16.8	6.9	<<	Extensive education and/or training may be required
Mechanical	6.8	11.2	8.1	<<	Extensive education and/or training may be required
Design	5.2	10.7	3.5	<<	Extensive education and/or training may be required
Public Safety and Security	6.9	10.6	5.2	<<	Extensive education and/or training may be required
Transportation	4.6	8.0	5.2	<<	Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills — Similarity of Focus Occupation to Associated Occupation: 87

Focus Occupation: Pipelayers (47-2151)
Associated Occupation: Construction Laborers (47-2061)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Operation and Control	5.4	8.1	9.2	>	Skill level is likely sufficient
Equipment Selection	3.3	5.3	6.4	>	Skill level is likely sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities — Similarity of Focus Occupation to Associated Occupation: 86

Focus Occupation: Pipelayers (47-2151) Associated Occupation: Construction Laborers (47-2061)					
Associated Occupation's Key Abilities Elements	**Average Rating, All Occupations**	**Associated Occupation's Rating**	**Focus Occupation's Rating**		**Evaluation of Focus Occupation**
Static Strength	5.0	11.6	7.3	<<	Extensive improvement in abilities may be required
Manual Dexterity	6.5	11.2	9.7	<	Some improvement in abilities may be required
Multilimb Coordination	6.0	10.6	8.6	<	Some improvement in abilities may be required
Trunk Strength	5.7	10.3	7.4	<<	Extensive improvement in abilities may be required
Stamina	4.0	8.6	6.8	<	Some improvement in abilities may be required
Dynamic Strength	3.5	7.0	4.5	<<	Extensive improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 86

Focus Occupation: Pipelayers (47-2151) Associated Occupation: Construction Laborers (47-2061)	
Work Activities	**Exclusivity of Activity**
Adhere to safety procedures	12
Apply adhesives, caulking, sealants, or coatings	45
Assemble and install pipe sections, fittings, or plumbing fixtures	71
Build or repair structures in construction, repair, or manufacturing setting	54
Cut, shape, fit, or join wood or other construction materials	58
Dig holes or trenches for foundations, posts, poles, or related items	78
Fabricate, assemble, or disassemble manufactured products by hand	11
Grade or redistribute earth for roads or other construction	87
Move or fit heavy objects	8
Operate land or site surveying instruments	80
Operate pneumatic tamper to patch pavement or tamp earth	89
Operate power construction equipment	84
Operate power driven pumps	66
Perform safety inspections in construction or resource extraction setting	46
Read tape measure	41
Signal directions or warnings to coworkers	42
Understand construction specifications	53
Use hand or power tools	2
Use hazardous materials information	35
Use measuring devices in construction or extraction work	41

Verify levelness or verticality, using level or plumb bob	72
Work as a team member	36

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 85

Focus Occupation: Pipelayers (47-2151)
Associated Occupation: Construction Laborers (47-2061)

Tools and Technologies	Exclusivity
Aerial lifts	13
Cleaning equipment	11
Compressors	9
Dispensing tools	6
Drilling and operation machinery	29
Earth moving machinery	11
Face and head protection	7
Forming tools	2
Garden tools	12
Holding and clamping tools	3
Indicating and recording instruments	2
Ladders and scaffolding	6
Length and thickness and distance measuring instruments	2
Lifting equipment and accessories	3
Machine tools	7
Measuring and layout tools	3
Pneumatic tools	8
Power generators	16
Power tools	2
Prying and bending tools	10
Pumps	9
Rough and finishing tools	5
Soldering and brazing and welding machinery and supplies	6
Tool attachments and accessories	12
Wrenches and drivers	2

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.